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THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

**Jurgen Schulz-Harder et al**

Group Art Unit: **2835**

Serial No: **10/561,433**

Examiner: **Courtney Smith**

Filed : **December 19, 2005**

For : **DEVICE WITH A HEAT SOURCE FORMED BY  
A FUNCTION ELEMENT THAT IS TO BE COOLED,  
AT LEAST ONE HEAT SINK, AND AT LEAST  
ONE INTERMEDIATE LAYER LOCATED BETWEEN  
THE HEAT SOURCE AND THE HEAT SINK**

**RESPONSE TO OFFICE ACTION OF JULY 25, 2008**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicant requests reconsideration of the current refusal to allow claims 1-9, 11, 12, 14-27, 29-34, 36-44, 46, 47 and 49-58, as presently on file. Procedurally, applicant would like to point out that the priority document was provided to the U.S. Patent and Trademark Office by the International Bureau, and a photocopy of the Notification is enclosed for the benefit of the Examiner.

Regarding the refusal of independent claims 1 and 36, applicant would like to point out that a crucial focus of the claims in the application is the combination of the claimed features "the length of at least a majority of the nanofibers embedded in the organic matrix is between 1 and 100  $\mu\text{m}$ " and "the heat source and the heat sink bear with their thermally conductive surfaces against the intermediate layer with a surface pressure of between approximately 0.1 and 100 bar."

This unique combination and the intended improvement of the thermal conductivity between the hear source and the heat sink is obtained only by the combination of these features and the crucial criticality of the length of the nanofibers.